# CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

# 5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654


To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP Bangalore.

23rd March 2015

Dear Sir,

**Sub:** Construction of CC roads and drains at C Narayana house western side Kondappa layout in ward no. 02, of yelahanka sub division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

**For Civil Tech Labs,**

Khushboo

CIVIL TECH LABS BANGALORE

**(KHUSHBOO L.)**
**Quality Manager**

AE
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AEE

CIVIL TECH LABS
# 5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

# TEST REPORT

## COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Yelahanka Sub Division, BBMP |
| **Name of Work** | Construction of CC roads and drains at C Narayana house western side Kondappa layout in ward no. 02, of yelahanka sub division. |
| **Name of Agency** | Sri. Y. R. Sridhar |
| **Grade of Concrete** | M-15 |
| **No. of cubes tested** | 3 |
| **Dimension of Specimen** | 150mmx150mmx150mm |
| **Cross Sectional Area** | 22500 mm² |
| **Technical Reference** | IS: 516-1959 (Reaffirmed 2013) |

| Sl. No. | Identification | Date of Casting | Date of Testing | Age at test (Days) | Weight (Kg) | Failure Load (KN) | Compressive Strength (N/mm²) | Avg Compressive Strength (N/mm²) |
|---|---|---|---|---|---|---|---|---|
| 1 | CC-Work (RCC precast slab) | 18/02/2015 | 18/03/2015 | 28 | 8.15 | 360 | **16.00** | **16.22** |
| 2 | | | | | 8.16 | 365 | **16.22** | |
| 3 | | | | | 8.17 | 370 | **16.44** | |

**Note:**

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

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Lab Incharge
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## TEST REPORT

### COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Yelahanka Sub Division, BBMP |
| **Name of Work** | Construction of CC roads and drains at C Narayana house western side Kondappa layout in ward no. 02, of yelahanka sub division. |
| **Name of Agency** | Sri. Y. R. Sridhar. |
| **Grade of Concrete** | M-20 |
| **No. of cubes tested** | 3 |
| **Dimension of Specimen** | 150mmx150mmx150mm |
| **Cross Sectional Area** | 22500 mm² |
| **Technical Reference** | IS: 516-1959 (Reaffirmed 2013) |

| Sl. No. | Identification | Date of Casting | Date of Testing | Age at test (Days) | Weight (Kg) | Failure Load (KN) | Compressive Strength (N/mm²) | Avg Compressive Strength (N/mm²) |
|---|---|---|---|---|---|---|---|---|
| 1 | CC-Work | 20/02/2015 | 20/03/2015 | 28 | 8.17 | 470 | **20.89** | **21.19** |
| 2 | | | | | 8.18 | 475 | **21.11** | |
| 3 | | | | | 8.20 | 485 | **21.56** | |

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# TEST REPORT

## COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Yelahanka Sub Division, HBMP |
| **Name of Work** | Construction of CC roads and drains at C Narayana house western side Kondappa layout in ward no. 02, of yelahanka sub division. |
| **Name of Agency** | Sri. Y. R. Sridhar. |
| **Grade of Concrete** | M-30 |
| **No. of cubes tested** | 3 |
| **Dimension of Specimen** | 150mmx150mmx150mm |
| **Cross Sectional Area** | 22500 mm² |
| **Technical Reference** | IS: 516-1959 (Reaffirmed 2013) |

| Sl. No. | Identification | Date of Casting | Date of Testing | Age at test (Days) | Weight (Kg) | Failure Load (KN) | Compressive Strength (N/mm²) | Avg Compressive Strength (N/mm²) |
|---|---|---|---|---|---|---|---|---|
| 1 | CC-Work | 23/02/2015 | 23/03/2015 | 28 | 8.20 | 690 | **30.67** | **30.67** |
| 2 | | | | | 8.21 | 700 | **31.11** | |
| 3 | | | | | 8.19 | 680 | **30.22** | |

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T-2654


To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP Bangalore.

11th February 2015

Dear Sir,

**Sub:** Testing of Reinforcement steel bars.

As requested, tests on physical properties were carried out for the Reinforcement steel bars supplied by you, for the work of **'Construction of CC roads and drains at C Narayana house western side Kondappa layout in ward no. 02, of yelahanka sub division.'**

Please find the enclosed Test Reports of the above.

**Thanking You,**
**For Civil Tech Labs**

Khushboo

CIVIL TECH LABS BANGALORE

**(KHUSHBOO L.)**
**Quality Manager**

# CIVIL TECH LABS

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## TEST REPORT

### TEST ON REINFORCEMENT STEEL BARS 12mm

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Yelahanka Sub Division, BBMP |
| **Name of Work** | Construction of CC roads and drains at C Narayana house western side Kondappa layout in ward no. 02, of yelahanka sub division. |
| **Name of the Agency** | Sri. Y. R. Sridhar. |
| **Date of Test** | 11/02/2015 |

| Sl.No. | Description | Result | IS 1786-2008 Min. Requirements | Remarks |
|---|---|---|---|---|
| 1 | Measured Diameter mm | 12 | 12 | Satisfactory |
| 2 | Wt/m Length (Kg/m) | 0.888 | 0.888 | Satisfactory |
| 3 | Bend & RebendTest | Pass | Should not Crack or Fracture | Satisfactory |
| 4 | Elongation (%) | 15.4 | 14.5 | Satisfactory |
| 5 | Yield Stress(N/Sq.mm) | 422 | 415 | Satisfactory |
| 6 | U T S (N/Sq.mm) | 528 | 485 | Satisfactory |

**Note:**

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4. The results are based on the test conducted on samples supplied by the client.

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## TEST REPORT
## TESTS ON REINFORCEMENT STEEL BARS 8mm

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Yelahanka Sub Division, BBMP |
| **Name of Work** | Construction of CC roads and drains at C Narayana house western side Kondappa layout in ward no. 02, of yelahanka sub division. |
| **Name of the Agency** | Sri. Y. R. Sridhar. |
| **Date of Testing** | 11/02/2015 |

| Sl.No. | Description | Result | IS 1786-2008 Min. Requirements | Remarks |
|---|---|---|---|---|
| 1 | Measured Diameter mm | 8 | 8 | Satisfactory |
| 2 | Wt/m Length (Kg/m) | 0.396 | 0.395 | Satisfactory |
| 3 | Bend & RebendTest | Pass | Should not Crack or Fracture | Satisfactory |
| 4 | Elongation (%) | 14.7 | 14.5 | Satisfactory |
| 5 | Yield Stress($N/mm^2$) | 418 | 415 | Satisfactory |
| 6 | U T S ($N/mm^2$) | 522 | 485 | Satisfactory |

**Note:**

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# 5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654


To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP Bangalore.

05th February 2015

Dear Sir,

**Sub:** Testing Materials.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Construction of CC roads and drains at C Narayana house western side Kondappa layout in ward no. 02, of yelahanka sub division.'**

Please find the enclosed Test Reports of the above.

**Thanking You,**
**For Civil Tech Labs**

Khushboo

CIVIL TECH LABS BANGALORE

**(KHUSHBOO L.)**
**Quality Manager**

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## TEST REPORT

### TEST ON FINE AGGREGATES Ref:IS:383/2386

| | |
|---|---|
| **Name & Address of the Customer** | AEE. Yelahanka Sub Division. BBMP |
| **Name of Work** | Construction of CC roads and drains at C Narayana house western side Kendappa layout in ward no. 02, of yelahanka sub division |
| **Name of the Agency** | Sri. Y. R. Sridhar. |
| **Date of Testing** | 05/02/2015 |
| **Specific Gravity** | 2.55 |

| Sample | IS Sieve designation (mm) | Sieve Analysis (% Passing IS Sieve) | Grading Requirement as per IS:383-1970 | | | | Grading Zone |
|---|---|---|---|---|---|---|---|
| | | | ZONE-I | ZONE-II | ZONE-III | ZONE-IV | |
| River Sand | 10 | 100 | 100 | 100 | 100 | 100 | II |
| | 4.75 | 98.6 | 90-100 | 90-100 | 90-100 | 95-100 | |
| | 2.36 | 83.5 | 60-95 | 75-100 | 85-100 | 95-100 | |
| | 1.18 | 74.2 | 30-70 | 55-90 | 75-100 | 90-100 | |
| | 0.6 | 48.6 | 15-34 | 35-59 | 60-79 | 80-100 | |
| | 0.3 | 23.7 | 5-20 | 8-30 | 12-40 | 15-50 | |
| | 0.15 | 8.2 | 0-10 | 0-10 | 0-10 | 0-15 | |

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## TEST REPORT

### TEST ON COARSE AGGREGATES 40mm ↓ Graded Ref:IS:383/2386

| | |
|---|---|
| Name & Address of the Customer | AEE, Yelahanka Sub Division, BBMP |
| Name of Work | Construction of CC roads and drains at C Narayana house western side Kondappa layout in ward no. 02, of yelahanka sub division |
| Name of the Agency | Sri. Y. R. Sridhar. |
| Date of Testing | 05/02/2015 |
| Specific Gravity | 2.68 |
| Water Absorption in % | 0.27 |

| IS Sieve Designation (mm) | Sieve Analysis (% Passing IS Sieve) | Grading Requirement as per IS:383-1970 (Reaffirmed 2011) | Remarks |
|---|---|---|---|
| 80 | 100 | 100 | Satisfies the requirement |
| 40 | 97.6 | 95-100 | |
| 20 | 53.4 | 30-70 | |
| 10 | 24.6 | 10-35 | |
| 4.75 | 3.8 | 0-5 | |

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## TEST REPORT

**TEST ON COARSE AGGREGATES 20mm ↓ Graded** Ref:IS:383/2386

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Yelahanka Sub Division, BBMP |
| **Name of Work** | Construction of CC roads and drains at C Narayana house western side Kondappa layout in ward no. 02, of yelahanka sub division. |
| **Name of the Agency** | Sri. Y. R. Sridhar. |
| **Date of Testing** | 05/02/2015 |
| **Specific Gravity** | 2.61 |
| **Water Absorption in %** | 0.33 |

| IS Sieve Designation (mm) | Sieve Analysis (% Passing IS Sieve) | Grading Requirement as per IS:383-1970 (Reaffirmed 2011) | Remarks |
|---|---|---|---|
| 40 | **100** | 100 | **Satisfies the requirement** |
| 20 | **97.6** | 95-100 | |
| 10 | **42.6** | 25-55 | |
| 4.75 | **7.5** | 0-10 | |

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